

Investor Presentation

February / March 2025



Agenda

Introduction

Operational and Financial Performance

Merger Update

Lithium Market and Guidance



Sayona overview

ASX:SYA OTCQB: SYAXF

Strong operational experience



Lucas Dow - MD & CEO

*

A highly experienced mining executive, Lucas has a proven track record of outstanding performance across a diverse range of businesses, commodities and geographies, skills which will facilitate Sayona's next stage of growth as a leading North American lithium producer.



Sylvain Collard - President and COO of Canada



Sylvain is a specialist in mine project management and continuous process improvement, he has extensive experience in operations management for both open pit and underground mines. Sylvain has worked on several IAMGOLD mining projects and has managed copper and gold mines and projects in Québec, Ontario and the United States.



Dougal Elder - CFO



Dougal is a chartered accountant with more than 15 years' experience in large private and publicly owned companies in Australia and the United Kingdom. He has extensive experience in driving budget management, systems implementations, treasury management and strategic initiatives across a range of industries.

Corporate

Market Capitalisation (ASX)

A\$254M

24 February 2025

Shares on Issue

11.5 billion

Share consolidation proposed with Piedmont Lithium merger

Cash

A\$110 million

At 31 December 2024

North America's leading producer of hard-rock lithium

North American Lithium

Largest NA lithium producer

87.9Mt @ 1.13%¹

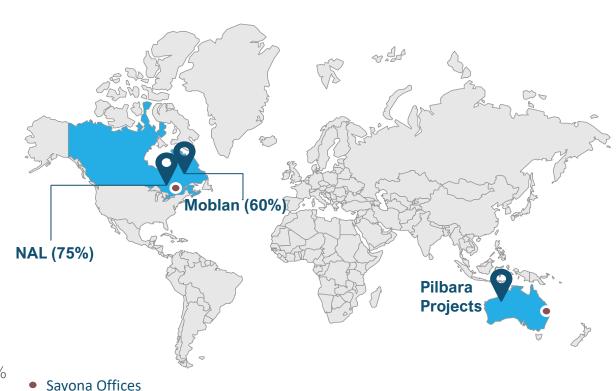
- Only major North American lithium producer
- Access to low-cost, renewable power and mature infrastructure
- Drilling indicates potential to expand resource
- Planned production capacity 190-210ktpa Li₂O for FY25
- Sayona 75% : Piedmont 25%

Moblan Lithium Project

Sayona's next flagship project

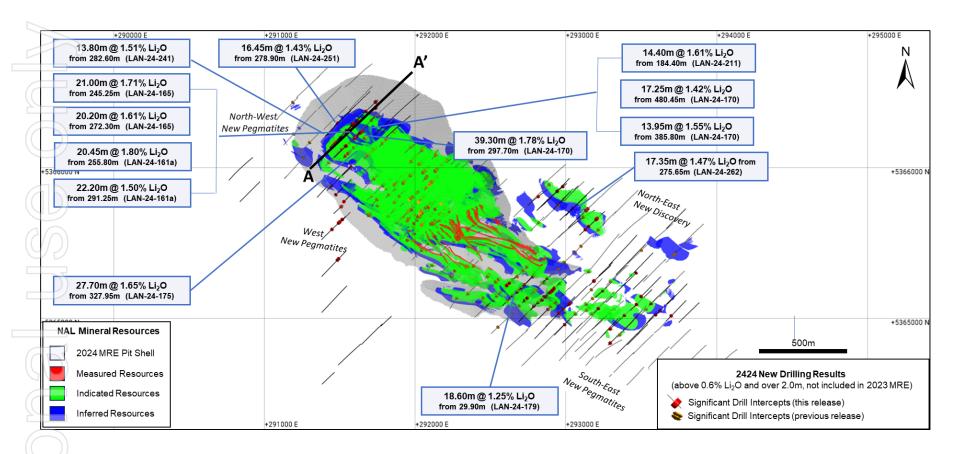
93.1Mt @ 1.21%²

- Emerging hard-rock deposit
- Close to major infrastructure such as roads, power lines and railroads
- Available and trained local workforce
- Drilling indicates potential to expand resource
- Estimated operating unit cost comparable with most competitive hard-rock lithium mines in production
- Sayona 60%: Investissement Quebec 40%



Refer to ASX Announcement on 27 August 2024 (at 0.60% cut-off grade) and slide 21. Refer to ASX Announcement on 27 August 2024 (at 0.55% cut-off grade) and slide 21.

North American Lithium





Focused on resource extension and infill for potential JORC category increase

Additional drilling of 53,444m completed in CY24

Supported by utilisation of Flow Through Share funding

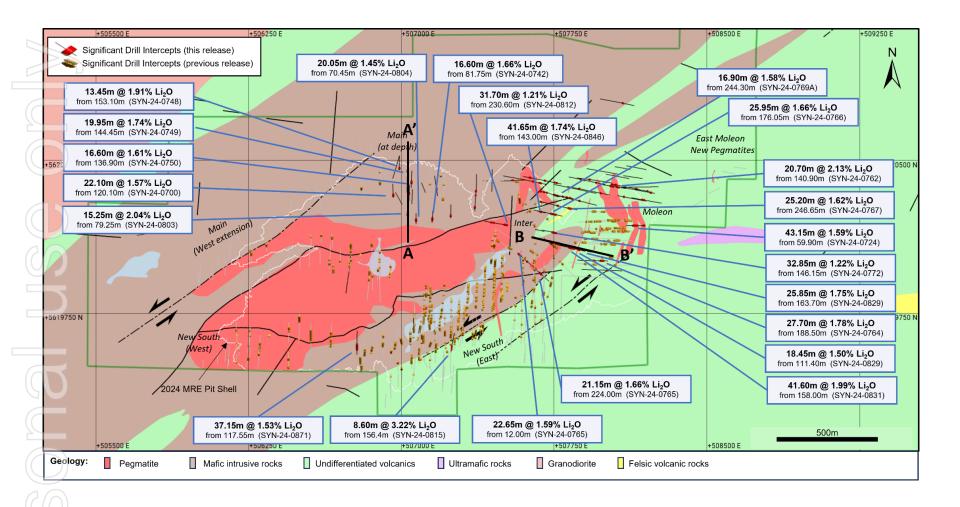
High-grade lithium mineralisation confirmed beyond existing estimates

Supports potential brownfield expansion of NAL

Enhances project value amid :he Sayona-Piedmont merger

New MRE to be completed during 2025

Moblan





Additional drilling of 76,202m completed in CY24

Financed by utilisatior of Flow Through Share funding

New results confirm Moblan's resource growth potential

Further drill results expected in coming months

New MRE to be completed during 2025



FY25 Half Year Highlights¹

y

North American Lithium achieves consistently strong production

Production

103,063 DRY METRIC TONNES

↑ UP 57%

Sales

115,027 DRY METRIC TONNES

1 UP 59%

Financial

\$122M

REVENUE

\$110M

CASH AT 31 DECEMBER 2024

Corporate)



Merger with Piedmont Lithium announced



Successful A\$38 million capital raise Nov. 2024



Conditional A\$69 million capital raise at merger completion with RCF

90%

MILL UTILISATION

NAL



67%

RECOVERY

NAL



53,4442

METRES DRILLING COMPLETED

NAL



76,2022

METRES DRILLING COMPLETED

MOBLAN



Notes

1. All figures are AUD (A\$) unless otherwise noted.

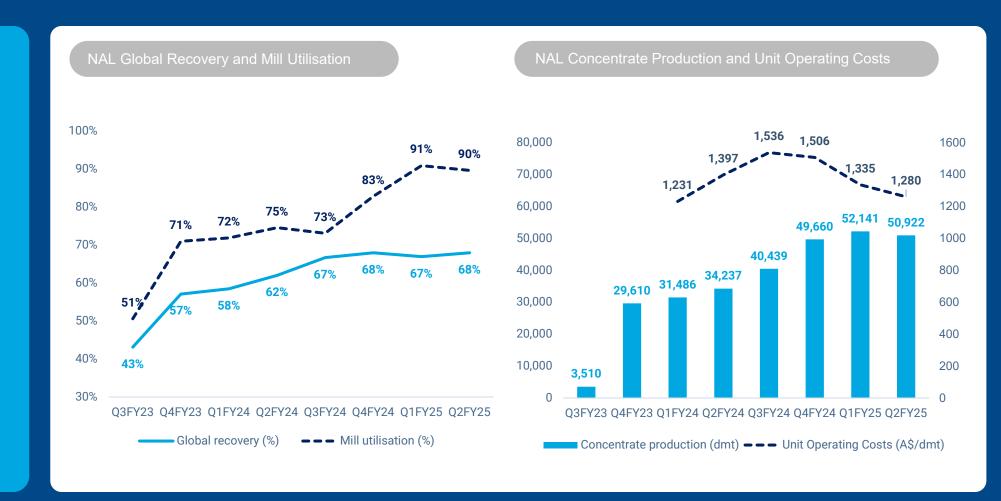
2. Funded by Flow Through Share funding as allowed under the *Income Tax Act* (Canada).



NAL Operational Performance

Delivering Production in line with budget

- Continued increase in ore mined up 12% against PCP
- Process plant utilisation consistently ~90% with improved plant stability
- Consistent lithium recoveries of 67% which was 7% higher against PCP
- Concentrate production of 103kt was a 57% increase on the prior year
- Sales to customers hit a record 115kt with continuing efficiencies in logistics arrangements
- Continued focus on safety improvement in FY25







Merger Transaction Structure



MergeCo

ASX primary listing Nasdag secondary listing of ADRs (Renamed from Sayona)









Newly Created Delaware Subsidiary

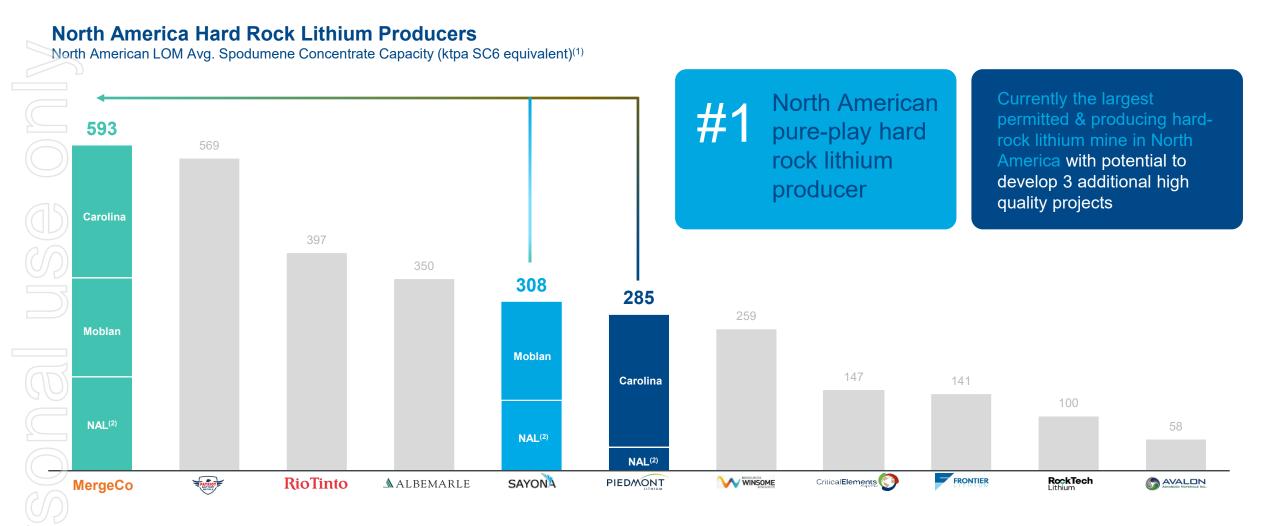
Overview of the merger

- Newly-formed US subsidiary of Sayona to merge with and into Piedmont, subject to shareholder approvals.
- Sayona will be the ultimate parent entity (i.e. "MergeCo") with Piedmont as a wholly owned subsidiary.
- Post transaction ownership split: approximately 50% Sayona shareholders / 50% Piedmont shareholders, on a fully-diluted basis, prior to conditional placement.
- MergeCo will be domiciled in Australia with an ASX primary listing and NASDAQ secondary listing.
- Subject to shareholder approval, MergeCo to rebrand under a new name to be announced.

Benefits of ASX primary listing and a Nasdag secondary listing

- ASX has demonstrated track record of supporting emerging mining companies, already familiar with MergeCo's assets.
- Nasdag listing provides enhanced liquidity and potential to broaden equity research coverage and institutional investor interest.





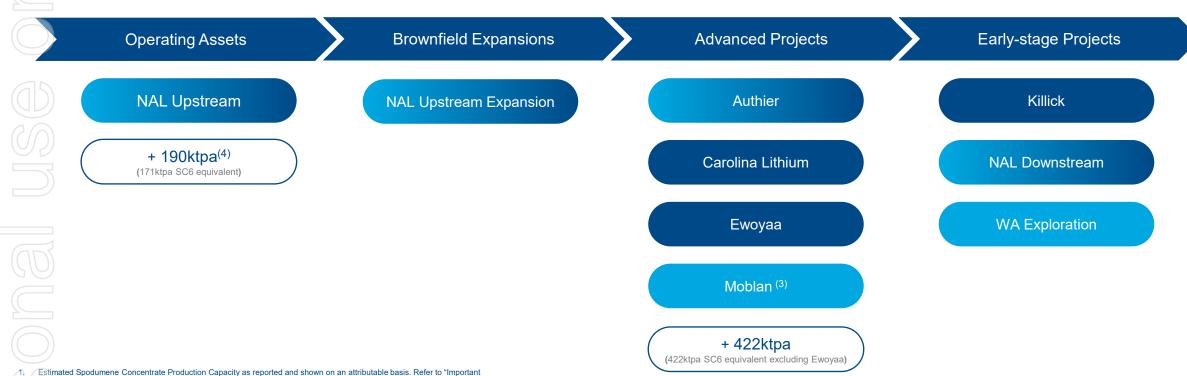
Capacity based on public company data (see "Important Information and Disclaimer" section for details). Totals may differ due to small rounding. Excludes Chinese companies. Refer to supporting information on page 25 LOM average spodumene production for North American Lithium expected to be 190ktpa SC5.4 (171ktpa SC6.0), includes Authier project

Combined Scale Enhances Growth Pipeline and Provides Flexibility to Optimise Development

Sayona Project

Piedmont Project

Growth Pipeline (1)(2)



Information and Disclaimer' section for the source of previously reported production targets for NAL Upstream, Authier, Carolina Lithium, and Moblan, which are underpinned by the Mineral Resource and Ore Reserve Estimates in ASX release dated 19 November 2024 titled "Proposed Merger & Equity Financing Presentation" on pages 35 – 38 and slides 21-24 of this presentation.

^{2.} Projects listed in alphabetical order

Moblan equity interest shown to be 60%

Production target over life-of-mine of 190ktpa spodumene concentrate. Target annual production for first four years until start of downstream production is 226ktpa. Refer to Sayona ASX announcement released on 14 April 2023



Current status of merger

Regulatory and procedura

CFIUS (US national security) filing accepted – awaiting ruling

Investment Canada Act (ICA) regulatory clearance complete

HSR (US competition clearance) notice submitted – ongoing engagement with DOJ

ASIC and ASX engagement progressing

Draft SEC F-4 Registration Statement prepared – review and feedback from SEC is typically 1 – 2 ½ months

EGM preparation commenced

Draft NOM underway including share consolidation

Corporate and implementation

MergeCo Board composition near finalised

Organisational structure being considered

Integration planning progressing

Rebranding project commenced

New website underway

MergeCo strategy and project prioritisation is progressing

Finance integration assessment completed

Targeting merger completion mid-2025

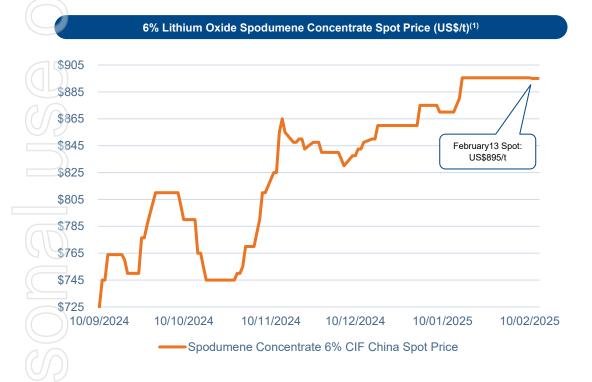


Lithium Market and Guidance

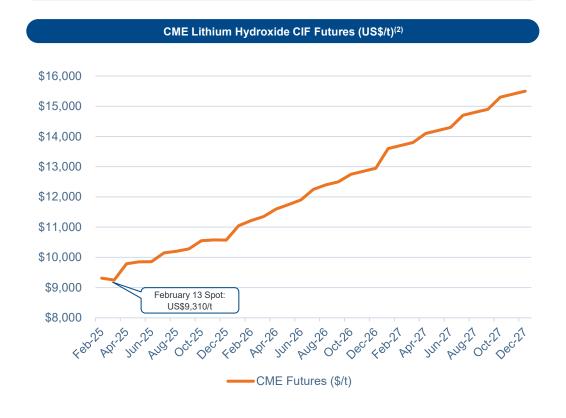


Spodumene Prices Have Continued to Recover; Lithium Hydroxide Futures Remain Strongly in Contango

- Spodumene Concentrate prices have recovered from multi-year lows as industry responds to supply curtailments and project delays
- Resilient demand growth from EVs and ESS driving downstream inventory destocking



- Lithium Hydroxide futures market remains in contango providing higher prices for future sales volume
- MergeCo can forward sell spodumene concentrate deliveries against the futures curve to increase certainty over price realisations and limit downside exposure



Fastmarkets pricing as of February 13, 2025

Chicago Mercantile Exchange settlements as of February 13, 2025



FY25 Guidance⁵

Spodumene Concentrate Production

190,000-210,000 DRY METRIC TONNES

SC 5.4% product grade

100% NAL production

FY25 production guidance assumes NAL achieves steady state production levels in FY25 Spodumene Concentrate Sales

200,000-230,000

DRY METRIC TONNES

SC 5.4% product grade

100% NAL sales

Approximately two thirds (67%) of concentrate sales will be sold by NAL to Piedmont Lithium under the offtake agreement in FY25

Unit Operating Costs (1,4)

A\$1,150-A\$1,300 PER DRY METRIC TONNE

SC 5.4% product grade

100% NAL unit operating costs

A\$ / dmt sold, FOB Port of Québec

Unit operating costs reflect achievement of steady state production levels

Capital Expenditure (1,2)

~A\$20M

Group capital expenditure relates predominantly to sustaining capital projects at NAL Exploration Expenditure (1,3)

~A\$30M

Relates to utilisation of Flow Through Share funding which must be spent on Quebec lithium projects by end of 2024 H2FY25 Shipment Volumes (Q3vQ4)

Q3 ~ 30% Q4 ~ 70%

Shipping volumes have been deliberately weighted to Q4FY25 in order to deliver into higher priced forward sales arrangements that commence in April 2025. Full year sales volume outcomes will not be affected

Notes

Guidance assumes average annual foreign exchange rates of AUD:CAD 0.91 and AUD:USD 0.667

Capital expenditure guidance excludes movements in capital creditors which amounted to A\$3 million as at 30 June 2024.

3 Exploration expenditure guidance excludes movements in exploration creditors which amounted to A\$7 million as at 30 June 2024.

Unit operating cost is calculated on an accruals basis and includes mining, processing, transport, port charges, site-based general and administration costs and cash based inventory movements, and excludes depreciation and amortisation charges, freight and royalties. It is reported in AS / dmt sold, FOB Port of Québe Guidance published in ASX release 30 August 2024 is based on assumptions, budgets and estimates existing at the time of assessment which may change over estimates. These estimates are developed in the context of an uncertaint operating environment including in respect of inflationary macroeconomic conditions, incomplete engineering and uncertainties surrounding the risks associated with mining and project development including construction, commissioning and ramp up which may delay or impact production and have a flow on effect on sales. Actual results may therefore vary significantly depending on these risks and the timing required to address them. The information is provided as an indicative quide to assist sophisticated investors with modelling of the Company. It should not be relied upon as a predictor of future performance.



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Appendix



NAL Quarterly Physicals and Operational Metrics

				FY24			FY25			H1		
	UOM	Q1	Q2	Q3	Q4	FY24	Q1	Q2	H1 FY25	H1 FY24	H1 FY25	Variance
Physicals ¹												
Ore Mined	kwmt	224	322	351	234	1,132	240	370	611	547	611	12%
Ore Crushed	kwmt	259	276	264	312	1,112	362	343	705	535	705	32%
Spodumene Concentrate Produced	kdmt	31	34	40	50	156	52	51	103	66	103	57%
Spodumene Concentrate Sold	kdmt	48	24	58	28	158	49	66	115	72	115	59%
Unit Metrics												
Average Realised Sales Price (FOB) ²	A\$/t	1,985	946	999	885	1,272	1,067	1,054	1,060	1,640	1,060	(35%)
Unit Operating Cost Produced (FOB) ³	A\$/t	1,841	1,924	1,681	1,275	1,637	1,088	1,117	1,102	1,884	1,102	(42%)
Unit Operating Cost Sold (FOB) ⁴	A\$/t	1,231	1,397	1,536	1,506	1,417	1,335	1,280	1,303	1,286	1,303	1%
Production Variables												
Mill Utilisation	%	72	75	73	83	75	91	90	90	73	90	17%
Global Process Recovery	%	58	62	67	68	64	67	68	67	60	67	7%
Concentrate Grade Produced	%	5.5	5.5	5.4	5.3	5.4	5.3	5.3	5.3	5.5	5.3	(0.2%)

Notes

¹ All figures are reported in 100% terms. Numbers presented may not add up precisely to the totals provided due to rounding.

² Average realised sales price is calculated on an accruals basis and reported in \$/dmt sold, FOB Port of Québec.

³ Unit operating cost produced is calculated on an accruals basis and includes mining, processing, transport, port charges, site-based general and administration costs, and excludes inventory movements, depreciation and amortisation charges, freight and royalties. It is reported in \$/dmt Produced, FOB Port of Québec

4 Unit operating cost sold is calculated on an accruals basis and includes mining, processing, transport, port charges, site-based general and administration costs and cash based inventory movements, and excludes depreciation and amortisation charges, freight and royalties. It is reported in \$/dmt Poluced, FOB Port of Québec

Sayona Mineral Resources

Asset	Classification	Tonnage (Mt) ¹	Grade (% Li ₂ O)	Contained Metal (kt Li ₂ O)	Contained LCE kt
	Measured	0.9	1.11%	10	25
NAL	Indicated	71.1	1.14%	811	2,004
(Sayona 75% equity) ²	M+I	72.1	1.14%	821	2,029
	Inferred	15.8	1.05%	166	410
15)	Measured	6.0	0.98%	59	145
Authier	Indicated	8.1	1.03%	83	206
(Sayona 75% equity) ³	M+I	14.1	1.01%	142	351
	Inferred	2.9	1.00%	29	72
	Measured	6.0	1.53%	92	227
Moblan	Indicated	59.1	1.22%	721	1,783
(Sayona 60% equity) ⁴	M+I	65.1	1.25%	813	2,010
	Inferred	28.0	1.14%	319	789

Notes



^{1—}All resource figures shown on 100% basis. Mineral Resources are reported inclusive of ore reserves. All Mineral Resource estimates are reported in accordance with the JORC Code

² Updated JORC Mineral Resource Estimate, refer to Sayona's ASX announcement titled "North American Lithium Resource increases 51% to 88Mt" released on 27 August 2024

³ North American Lithium DFS, refer to Sayona's ASX announcement titled "DFS Confirms NAL Value With \$2.2B NPV" released on 14 April 2023

⁴ Updated JORC Mineral Resource Estimate, refer to Sayona's ASX announcement titled "Moblan Mineral Resource increases 81% to 93Mt" released on 27 August 2024

Sayona Mineral Reserves

		Cut-off grade %Li ₂ 0	Proved Ore Reserves			Probable Ore Reserves			Total Ore Reserves		
Project	Ownership interest %		Tonnes kt	Grade % Li ₂ O	Metal ⁽¹⁾ kt Li ₂ O	Tonnes kt	Grade % Li ₂ O	Metal ⁽¹⁾ kt Li ₂ O	Tonnes kt	Grade % Li ₂ O	Metal ⁽¹⁾ kt Li ₂ O
Authier											
Open Pit	75	0.55	6,200	0.93	57.6	5,100	1.00	50.7	11,300	0.96	108.3
Moblan											
Open Pit	60	0.60	_	_	_	34,537	1.36	_	34,537	1.36	_
NAL											
Open Pit	75	0.60	200	1.09	2.2	19,900	1.09	216.6	20,100	1.09	218.6



Notes

¹ Represents metal contained within ore reserves, expressed in thousand tonnes of lithium oxide.

Piedmont Mineral Resources (100% basis)

	Asset	Classification	Tonnage ⁽¹⁾ (Mt)	Grade (% Li ₂ O)	Contained Metal (kt Li ₂ O)	Contained LCE kt
		Measured	0.9	1.11%	10	25
	NAL	Indicated	71.1	1.14%	811	2,004
(Piedm	(Piedmont 25% equity)(2)	M+I	72.1	1.14%	821	2,029
		Inferred	15.8	1.05%	166	410
		Measured	6.0	0.98%	59	145
	Authier	Indicated	8.1	1.03%	83	206
(Piedm	(Piedmont 25% equity) ⁽³⁾	M+I	14.1	1.01%	142	351
		Inferred	2.9	1.00%	29	72
40		Indicated	28.2	1.11%	313	774
(Piedm	Carolina ont 100% equity) ⁽⁴⁾	M+I	28.2	1.11%	313	774

1.02%

162

15.9

Inferred

401

^{1.} All resource figures shown on 100% basis. Mineral Resources are reported inclusive of ore reserves. All Mineral Resource estimates are reported in accordance with the JORC Code

^{2.} Updated JORC Mineral Resource Estimate, refer to Sayona's ASX announcement titled "North American Lithium Resource increases 51% to 88Mt" released on 27 August 2024

^{3.} North American Lithium DFS, refer to Sayona's ASX announcement titled "DFS Confirms NAL Value With A\$2.2B NPV" released on 14 April 2023

^{4.} Carolina Lithium BFS, refer to Piedmont's ASX announcement titled "Piedmont Completes BFS of the Carolina Lithium Project" released on 15 December 2021

Piedmont Ore Reserves (100% basis)



Asset	Classification	Tonnage ⁽¹⁾ (Mt)	Grade (% Li ₂ O)	Contained Metal (kt Li ₂ O)	Contained LCE kt
	Proven	0.2	1.09%	2	5
NAL (Piedmont 25% equity)(2)	Probable	19.9	1.09%	217	536
15)	Total	20.1	1.09%	219	542
	Proven	6.2	0.93%	58	143
Authier (Piedmont 25% equity)(3)	Probable	5.1	1.00%	51	126
	Total	11.3	0.96%	109	269
	Proven	-	-	-	-
Carolina (Piedmont 100% equity)(4)	Probable	18.3	1.10%	201	497
	Total	18.3	1.10%	201	497

^{1.} All reserve figures shown on 100% basis. All Ore Reserve estimates are reported in accordance with the JORC Code.

^{2. 2024} Annual Mineral Resources and Ore Reserve Statement, refer to Sayona's 2024 Annual Report released on 30 August 2024

^{3.} North American Lithium DFS, refer to Sayona's ASX announcement titled "DFS Confirms NAL Value With A\$2.2B NPV" released on 14 April 2023

^{4.} Carolina Lithium BFS, refer to Piedmont's ASX announcement titled "Piedmont Completes BFS of the Carolina Lithium Project" released on 15 December 2021

Supporting data: Positioned to be a North American Lithium Champion

Company	Asset	Country	Ownership	Attr. Capacity (ktpa SC) ⁽¹⁾	Attr. Capacity (ktpa SC6 eqv.)	Source	Date
Piedmont Lithium	Carolina	USA	100.0%	242	242	Piedmont Company Presentation - Offering Near-term Leverage to Lithium Prices	24-Oct-24
Pleamont Lithium	NAL	Canada	25.0%	48	43	Piedmont Company Presentation - Offering Near-term Leverage to Lithium Prices	24-Oct-24
Cavana Mining	Moblan	Canada	60.0%	180	180	Sayona ASX Announcement - Moblan Lithium projects definitive feasibility study positive results deliver C\$2.2B NPV	20-Feb-2
Sayona Mining	NAL	Canada	75.0%	143	128	Piedmont Company Presentation - Offering Near-term Leverage to Lithium Prices	24-Oct-2
Dia Tinta(2)	Whabouchi	Canada	50.0%	118	108	Arcadium Lithium - Investor Day Presentation	19-Sep-2
Rio Tinto ⁽²⁾	Galaxy (James Bay)	Canada	100.0%	310	289	Arcadium Lithium - Investor Day Presentation	19-Sep-2
RockTech Lithium	Georgia Lake	Canada	100.0%	100	100	Georgia Lake Project: Pre-Feasibility Study published	16-Nov-2
Avalon	Seperation Rapids	Canada	40.0%	81	58	Separation Rapids PEA	27-Sep-1
Frontier Lithium	PAK Lithium	Canada	92.5%	141	141	Pre-Feasibilty Study for the PAK Project	31-May-2
Critical Elements	Rose	Canada	100.0%	158	147	Critical Elements Investor Presentation - Lithium Charged High Purity Spodumene Project	03-Oct-2
	Wodgina	Australia	50.0%	450	413	2024 JP Morgan Global High Yield & Leveraged Finance Conference Presentation	27-Feb-2
Albemarle	Greenbushes	Australia	49.0%	772	772	SEC Technical Report Summary Pre-Feasibility Study Greenbushes Mine Western Australia	09-Feb-2
	Kings Mountain	USA	100.0%	350	350	Albemarle 2023 Form 10-K	15-Feb-2
	Wodgina	Australia	50.0%	450	413	2024 JP Morgan Global High Yield & Leveraged Finance Conference Presentation	27-Feb-2
MinRes	Mt Marion	Australia	50.0%	450	300	2024 JP Morgan Global High Yield & Leveraged Finance Conference Presentation	27-Feb-2
	Bald Hill	Australia	100.0%	150	138	2024 JP Morgan Global High Yield & Leveraged Finance Conference Presentation	27-Feb-2
Pilbara Minerals ⁽²⁾	Pilgangoora ⁽³⁾	Australia	100.0%	1,895	1,642	Study Delivers 2MTPA Expansion Option - Highly Accretive	21-Jun-2
	Salinas	Brazil	100.0%	528	433	Investor Presentation - Future Facing Commodities Conference	25-Mar-2
Sigma	Grota do Cirilo	Brazil	100.0%	766	702	NI 43-101 Report - Grota do Cirilo Lithium Project	24-Sep-2
Winsome Resources	Adina	Canada	100.0%	282	259	Scoping Study delivers a capital efficient solution for North American lithium production	17-Sep-2
Patriot Battery Metals	Shaakickiuwaanaan	Canada	100.0%	621	569	PEA Highlights Shaakichiuwaanaan Project as a Potential North American Lithium Raw Materials Supply Base	22-Aug-2

Chemical Grade spodumene concentrate capacity only

^{2.} Assumes completion of Rio Tinto's acquisition of Arcadium and Pilbara Minerals' acquisition of Latin Resources

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